

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/760,364

DATE: 08/17/2001
TIME: 12:09:45

Input Set : A:\-41-1.app
Output Set: N:\CRF3\08162001\I760364.raw

3 <110> APPLICANT: Lehmann, Juergen Michael
4 Shiau, Andrew Kwan-Nan
5 Tularik Inc.
7 <120> TITLE OF INVENTION: CAR Modulators: Screening and Treatment of
8 Hypercholesterolemia
10 <130> FILE REFERENCE: 018781-004110US
12 <140> CURRENT APPLICATION NUMBER: US 09/760,364
13 <141> CURRENT FILING DATE: 2001-01-12
15 <150> PRIOR APPLICATION NUMBER: US 60/176,398
16 <151> PRIOR FILING DATE: 2000-01-13
18 <160> NUMBER OF SEQ ID NOS: 14
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 348
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <220> FEATURE:
28 <223> OTHER INFORMATION: human constitutive androstane receptor (CAR) alpha
29 (hCAR_a)
31 <400> SEQUENCE: 1
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33 1 5 10 15
35 Gln Ala Thr Gly Tyr His Phe Asn Ala Leu Thr Cys Glu Gly Cys Lys
36 20 25 30
38 Gly Phe Phe Arg Arg Thr Val Ser Lys Ser Ile Gly Pro Thr Cys Pro
39 35 40 45
41 Phe Ala Gly Ser Cys Glu Val Ser Lys Thr Gln Arg Arg His Cys Pro
42 50 55 60
44 Ala Cys Arg Leu Gln Lys Cys Leu Asp Ala Gly Met Arg Lys Asp Met
45 65 70 75 80
47 Ile Leu Ser Ala Glu Ala Leu Ala Leu Arg Arg Ala Lys Gln Ala Gln
48 85 90 95
50 Arg Arg Ala Gln Gln Thr Pro Val Gln Leu Ser Lys Glu Gln Glu Glu
51 100 105 110
53 Leu Ile Arg Thr Leu Leu Gly Ala His Thr Arg His Met Gly Thr Met
54 115 120 125
56 Phe Glu Gln Phe Val Gln Phe Arg Pro Pro Ala His Leu Phe Ile His
57 130 135 140
59 His Gln Pro Leu Pro Thr Leu Ala Pro Val Leu Pro Leu Val Thr His
60 145 150 155 160
62 Phe Ala Asp Ile Asn Thr Phe Met Val Leu Gln Val Ile Lys Phe Thr
63 165 170 175
65 Lys Asp Leu Pro Val Phe Arg Ser Leu Pro Ile Glu Asp Gln Ile Ser
66 180 185 190
68 Leu Leu Lys Gly Ala Ala Val Glu Ile Cys His Ile Val Leu Asn Thr
69 195 200 205
71 Thr Phe Cys Leu Gln Thr Gln Asn Phe Leu Cys Gly Pro Leu Arg Tyr

F A N T A

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72 210 215 220
 74 Thr Ile Glu Asp Gly Ala Arg Val Gly Phe Gln Val Glu Phe Leu Glu
 75 225 230 235 240
 77 Leu Leu Phe His Phe His Gly Thr Leu Arg Lys Leu Gln Leu Gln Glu
 78 245 250 255
 80 Pro Glu Tyr Val Leu Leu Ala Ala Met Ala Leu Phe Ser Pro Asp Arg
 81 260 265 270
 83 Pro Gly Val Thr Gln Arg Asp Glu Ile Asp Gln Leu Gln Glu Glu Met
 84 275 280 285
 86 Ala Leu Thr Leu Gln Ser Tyr Ile Lys Gly Gln Gln Arg Arg Pro Arg
 87 290 295 300
 89 Asp Arg Phe Leu Tyr Ala Lys Leu Leu Gly Leu Leu Ala Glu Leu Arg
 90 305 310 315 320
 92 Ser Ile Asn Glu Ala Tyr Gly Tyr Gln Ile Gln His Ile Gln Gly Leu
 93 325 330 335
 95 Ser Ala Met Met Pro Leu Leu Gln Glu Ile Cys Ser
 96 340 345
 99 <210> SEQ ID NO: 2
 100 <211> LENGTH: 358
 101 <212> TYPE: PRT
 102 <213> ORGANISM: Mus musculus
 104 <220> FEATURE:
 105 <223> OTHER INFORMATION: mouse constitutive androstane receptor (CAR) beta 1
 106 (mCARbeta1, mCAR1)
 108 <400> SEQUENCE: 2
 109 Met Thr Ala Met Leu Thr Leu Glu Thr Met Ala Ser Glu Glu Glu Tyr
 110 1 5 10 15
 112 Gly Pro Arg Asn Cys Val Val Cys Gly Asp Arg Ala Thr Gly Tyr His
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 115 Phe His Ala Leu Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
 116 35 40 45
 118 Val Ser Lys Thr Ile Gly Pro Ile Cys Pro Phe Ala Gly Arg Cys Glu
 119 50 55 60
 121 Val Ser Lys Ala Gln Arg Arg His Cys Pro Ala Cys Arg Leu Gln Lys
 122 65 70 75 80
 124 Cys Leu Asn Val Gly Met Arg Lys Asp Met Ile Leu Ser Ala Glu Ala
 125 85 90 95
 127 Leu Ala Leu Arg Arg Ala Arg Gln Ala Gln Arg Arg Ala Glu Lys Ala
 128 100 105 110
 130 Ser Leu Gln Leu Asn Gln Gln Lys Glu Leu Val Gln Ile Leu Leu
 131 115 120 125
 133 Gly Ala His Thr Arg His Val Gly Pro Leu Phe Asp Gln Phe Val Gln
 134 130 135 140
 136 Phe Lys Pro Pro Ala Tyr Leu Phe Met His His Arg Pro Phe Gln Pro
 137 145 150 155 160
 139 Arg Gly Pro Val Leu Pro Leu Leu Thr His Phe Ala Asp Ile Asn Thr
 140 165 170 175
 142 Phe Met Val Gln Gln Ile Ile Lys Phe Thr Lys Asp Leu Pro Leu Phe
 143 180 185 190

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145 Arg Ser Leu Thr Met Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala
146 195 200 205
148 Val Glu Ile Leu His Ile Ser Leu Asn Thr Thr Phe Cys Leu Gln Thr
149 210 215 220
151 Glu Asn Phe Phe Cys Gly Pro Leu Cys Tyr Lys Met Glu Asp Ala Val
152 225 230 235 240
154 His Ala Gly Phe Gln Tyr Glu Phe Leu Glu Ser Ile Leu His Phe His
155 245 250 255
157 Lys Asn Leu Lys Gly Leu His Leu Gln Glu Pro Glu Tyr Val Leu Met
158 260 265 270
160 Ala Ala Thr Ala Leu Phe Ser Pro Asp Arg Pro Gly Val Thr Gln Arg
161 275 280 285
163 Glu Glu Ile Asp Gln Leu Gln Glu Glu Met Ala Leu Ile Leu Asn Asn
164 290 295 300
166 His Ile Met Glu Gln Gln Ser Arg Leu Gln Ser Arg Phe Leu Tyr Ala
167 305 310 315 320
169 Lys Leu Met Gly Leu Leu Ala Asp Leu Arg Ser Ile Asn Asn Ala Tyr
170 325 330 335
172 Ser Tyr Glu Leu Gln Arg Leu Glu Glu Leu Ser Ala Met Thr Pro Leu
173 340 345 350
175 Leu Gly Glu Ile Cys Ser
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179 <210> SEQ ID NO: 3
180 <211> LENGTH: 286
181 <212> TYPE: PRT
182 <213> ORGANISM: Mus musculus
184 <220> FEATURE:
185 <223> OTHER INFORMATION: mouse constitutive androstane receptor (CAR) beta 2
186 (mCARbeta2, mCAR2)
188 <400> SEQUENCE: 3
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190 1 5 10 15
192 Gly Pro Arg Asn Cys Val Val Cys Gly Asp Arg Ala Thr Gly Tyr His
193 20 25 30
195 Phe His Ala Leu Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
196 35 40 45
198 Val Ser Lys Thr Ile Gly Pro Ile Cys Pro Phe Ala Gly Arg Cys Glu
199 50 55 60
201 Val Ser Lys Ala Gln Arg Arg His Cys Pro Ala Cys Arg Leu Gln Lys
202 65 70 75 80
204 Cys Leu Asn Val Gly Met Arg Lys Asp Met Ile Leu Ser Ala Glu Ala
205 85 90 95
207 Leu Ala Leu Arg Arg Ala Arg Gln Ala Gln Arg Arg Ala Glu Lys Ala
208 100 105 110
210 Ser Leu Gln Leu Asn Gln Gln Lys Glu Leu Val Gln Ile Leu Leu
211 115 120 125
213 Gly Ala His Thr Arg His Val Gly Pro Leu Phe Asp Gln Phe Val Gln
214 130 135 140
216 Phe Lys Pro Pro Ala Tyr Leu Phe Met His His Arg Pro Phe Gln Pro

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VERIFICATION SUMMARY

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Input Set : A:\-41-1.app

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L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8